## RECORD

## 7. R. Forberg

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(July 1, 1962 - July 31, 1966)
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A BOORUM & PEASE PRODUCT

Florida July 1 - flight from maini (Viscount - nt. aid) West of Miami airport some land is cleared and grassy. with much disturbance Then extensive gray-boungreen arear (new gran?) with scattered greener spots and small patches of trees, mostly small and open. Roads and cultivated patches are light where, suggesting sand. ( guil west of suport the ground seems & be coul limeston) Southward and backs toward the court a large proportion of the land is occupied by subdivisions mostly somewhat inland. the crant, itself is wooded, even swampy. Irm of it seems to be cut up by streets gut no houser get. the bay seems to be a layon behind a barrier island or chain of islands. much of the bottom in the lagoon is of submerged seeps. The islands are worked but much cut with rods Outside the islands a shallow shelf, fairly wide, with a great complex of submerged reeps.

Culy 1962 Islands off north wast -Plantations dark purplish narrow outer barrier welly a somewhat reddish soils a few sand cap. Then a pastures, mel purplish complex of more estensive but apparently thin over usland largely many we a pale subsoil - at least swamps with tidal channels. wads and burow fich tosas and patcher of higher very frale. thinly worded sand, (marajiby - 75 mi no of surrounding a very shallow Camagnay) lagoon with megular sand red soils - large cultivates cory, These Thinly vegetated. a plantations, som then deeper water, with frastru a savanna, a few small islets. soil gradually darlo Then the coast conly slight red becoming purpless, red divelopment here). more and more in plantation narrow mangrove und still some large blocky Time worded land, then of savanna, some seems patches of cultivation to be princapple plantation, and smuch savanna in pasture 9.25 from color, out possibly not. with some reathered tries. rectangular pattern. anarea of more intension den sugar. cultivation and a small then an inegular flat patcher of rand dunes (1) white morais of brines area, server or semb front or then an inequalar but angula savanna. moraic of cultivation and forth coart, with a navor 9.76 parture - mostly green - soils belt of costal forest. dark puplish, trees very a serie of small islands. spane and megularly distributed, worded one seems to have narrow gallery along streams. mangines in interior, 978 more relief, brownish nother all have som fronts than green, still largely a larger verynegular island, cultivated, patches unaller, mostly mangrow, with white sand pales, sand color weally very lights herytheral what I then a solvate complex

famaica of islets and a very shallow nech with Magular barrie usland submerged tidal channely surrounding a layour with mangrove a the inver (month) ride, a beach and with a brighter green beach ridge on outer note bottom (Chalarria?). apatel, of rather shallow water, then about dropping greenish, but mostly a class It into deep blue water blue, not the day blue of the Entering Montego Bay Jamaico. laufic tropics. Mits on son we side ineglarly wooded much shipping three more islands, cultivation and clearing. and others westward, forming mangrove islands. a chain interiors mostly mangrove, some patches of Off airful a good and say bugger sand apparently Hills s. of anying worked, grany (boun) slands some cleaning and house landed at Montego Bay airfux. surround by beacher and beach ridges. a scattering of tiny sand Delonis regio iays on submerged neeps some regetation. Cyperus rotundons Coloris inflator Three extensive islands faither Cynolin Lastyln a right and me almost m Vaspalum conjugatum course, Mostly mangrove Catharanthus roseus with peripheral sand ridger Hibiron of rosa-sinensis a large ruf complex forming Carvaina equisitifolia an atoll like structure, Coros mucheray but rather megula. surrunding a lagon. lidal flats. 1000 bare, 2mg most of carp are mangrove with ssattered small manywes, 9.39 inother complex frestration around an strip a part of a general barner Reefe Geast as vary nono; water deepen very rapidly. but many mangrove cay Left at 10:47 In Kingston and a few sand carri and a

1942 Jamaira 6 1907 Jamaina Crastal strip very namor, but general aspect green helt begin almost in meddety. Flat interval, become 1059 There are hart-like, with somewhat wide, many serul a semb breek, green, settlement someroads, cultivation most gently but clouds very third, slotte and hollows between a wide, grat valley will 11:01 hills. a mas important road Antheastwarp the briefly parelleling course Eastward the band become Villages. Red badly less pronounced, may ended ridge perpendicula, flat ground, less hill, to course. Kather thick settlement sprontaneous vegetation along a network of but this more sabanna. like amall roads, Kart again becomes may Low savanna abrupt, will densely area, but landreage winded. Visibility becomes ( so far as can be seen through douds) pun because of clouds. still brand-like, but not In breaks is cloud, or to abrupt. stribing brand, all wooded, Drainage now dendrity 11-04 no significant amount of and megetation ground level enough for any mostly a green savonus, and of cultivation. with some cultivation, crocked a dist made relief stil sharp. shortly afterward, another beinning more worded and willage with in a but still langely open, broader valley, still thank, with network of wader some cleaning. on ridges, houses numero Thenanintrical mosaic along there. Clouds. of cleaning and timy abrupt Topography gentler wil 11:06 wooded bills with flat very red. general color green ground between them, but very morar of pasture, sent ; nango, for reathered cultivation savoynon. settlement her, fail red, som lenden utans, 1167

1967 Jamaisa Claritations and many road Causway to share ends a fair siged city. in a harribly tree-less mor plantation. subdivision a wish flat vives valley. a small ralley in The River somewhat men ndering with wast, east of the lived with narmy gallery courseway is scared from Hat plain, all in right quarrying and banans plintalins; Widdle slopes of mountain area of duner! then warral an wooded, repper seofer mangrove and mangrove mostly open possibly islets around Rendston glachenia. Harbor This rather muddy fower slopes covered by galen, afer poor neef patcher. green serul, with seull-from Kingston airfrant on a or freet in navener flat peninsula south of city crossed an alluvial from is a valley mostly well Cyneden dartylm a wide bar grand Corpens wtindu dry river bed Der Lanceverse gumeenen Mountain sloper are Codracum variegatus and result, This is the courted neum oleander Crawl americano range. The next one inland Helvesser was meaning x schop felly has more cleaning and less Carnaring equisetifolis. semb. In wait range Left Kingston (on tan Juan, P.R. an patcherof larger front Lagor south of an stary lines in ravines and a few on on a side try mangrove inland hill lopes. en islet a peninsula i an Cleanings (nevert) show apparently deciduous soul, a white appearance - well? with reathered East aring fring Crossed a valley with darl spielile emergent a wide, baided gravet ( possibly not Casewing ( Cacter ?) wer bed. Valley bottom, (n both) in bananas and pasture. some coconid plantation

12:13

Evenul abundant in love coastal sloper I small loay - stopes her mostly in arround, fratches swamp at head of bay. east of this a morning cultivation and series of pasters Ciling avait some swamp areas mangione, the frust of them a dark gray - Thoustly burned recently. Next one the general landrage of this carry peninsula, is green. The ultimate peninsuly is wooded except Ansone savanna in the distal love, (mant Pony) Opposts south peninsuls of Hypanines. this i brown with wooded In distance a bare white were bed were down to the on the peninsula a small mangreve swamp and small of farier islands. peninge island earth of

raving, earlery thing
worded.

North of it a barrier
reef encloses a large
The eastern leg of
thin barrier reef running
straight n-2 is wide.

a conspicuous surf is
breaking all along east
side. No cary on east vid
but ne small ne on lagorn
side.

For some distance the routh coast of Haiti is an view but too far away to see much of its vegetation. "It is generally slopes ruther steeply of the sale seems to be brown wither than green, it here the aspect of serul and savanna rather than frest.

174

The wast swing south The slopes are brown, seen to be mertly savanna with small patches of word. Well inland it seems to be freited with mountain slopes.

14

for francinged Lasto -cer Letaranna afondely Active of proper Merria je faminelate Codinario variegalin really fellow or of the same -harden some the affron from the thous welcher bulgher puttata Mysenfolians of Carrying coners Klist stratting us Cotherenthus or son the forgan fer of experience Cych made FEBRUAR UN MANINE The grand of water specialis Consolie aviden Cotor maipas Polymon perfolio Culebra treams - Engely deposited - be -De rece de son alesta arnall weter to sent of " from surreled blings in anyther It Thomas . .. Editi rees, mostly resolut generally world it not

no feat ground. Keepy westy - many - throthy a page - shape streaming income an - progrationed to with the was cliffed They made to exer. a former la gratare chair of small returnets a stands 10-21-0-21 year net any a town town the integral beef not promotely aget I have a direct your to the state of and the same of th Martingue - empletily stoud would except " arried tot on two through The charge - shaper of That telie damply greavy granted morning cleaning ful de France The last coly a day or more way is mainly throated land. som mangement had of tray a mount of village, world artilized an ating forther day become more untensively cultivated she to arrell and inequilar

5.1

reparated by hedges or gen small but of food Franks marrier 5-39 another some en front feger watern by antend Leveral layoung it would not some barrie whent and needs but not well developed 9 to wintle want to top 1 and met you waste. La Lencha I a detail groundle tought very inguitar adding. 543 months from of Barbarter on left -Toodantia, see commet. Slyping selation Many amile williage. cultivated. Close natural. Lighte provent all along with course Ber-buy Eight of Tobago, on

July 1 - The mide of formand worland vegetation is a tangent fruit with a engle component of your money greguent. Dembro persist for consultation plantation sparge often me - man lesions is old U.S. anshow. Marry grange ( and who got of ) but willy scattered trus and thickets of various siger.

Your Some

Circles forman ( to her. ) Ofren over of the green or ment were from mil to sell, granzis your is supported 150 pm. then done gray, then mother with ted, the real brandown er repulses a comprating the by glay - The mottling will branden to build consistions is her express feather structs on a thin low grass rangely Chynchrospin and cloring, Parpalum, te

I parch of latt trocket in the insume is on grown of prestration few inter traples, a solot array self that seems to be cracked and polysons for inches out complet ander or me wides feel y gons the manch med both tall short tree of vanou Andel Leafed more Undergrowth of Books and waring struction Edge is a board of Actions of an august saw-grown tyly clinting

Thorngo strines, or

eligerant gladowie

Wico Expection

the growne is a - withe

Road s. e of Valencia broad charles and hummochs, fooded part Typen but not gray sett, underlain This freed is largely halms of regard sorts. Mysisticacca, and various the trondreleaf trees undergrowth 3-5 m. Lall of structs, word Halm, etc. flered langer I am a more hough of young traling fittle regetation in an channels, morte, on Grandwork 1an enrous redge common or well as small on leaves of the large in about the deem Eules 2 - Trong in more of months. organia 3 22 or more long stant. beamenches eccasioner. and not very common Lionar Gana, common, + The thipleyton - translit lighters.

Trundad 1962 reap event. 42540 redg comma 41 framman 41 lephaelis acrich 1.5 m tall fruits lavender. occasions July 5 - Caron Swamp Caroni Co. along old cancer the Kherzopling swamp 43 Rhizophoia true of m. tail former pale yellow, 2- 1 on an 44 Khizophan winfor seene. abhriday small tree, Ends green. - Judi hal yellow. Rhizophons command abundant 46 Chizophana small treg i florers pabrindant trale yellers. 47 faguncularia racemora common especially shoul 2 m. tall :: toward head of anal \_ corolla white. small tree; buts green. Khizophora elundans several stems from hay Cryperus articulatus Chrally abundant in Then marches 50 Digitaria breamall in fill near bridge

July of Carrie twants

try, by boat

Inland and of canal 
Rhugophora mangle, Engerembers

received a vicenia,

Shiliran strate and of french the about write land a french and the same armen in these feat that a french after a feat that a feat a feat that a feat a feat that a feat a feat

hanging constrained about the just about the part when the fort

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general height is the trees in the ready allegations and her the man seems the world will work of many of the world would be the world with the world would have the world world and the world world world world world world world.

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38 1927 - Trail my my-Electronic my through the freit the spacing becomes along the state of the stat

elfrinder met mermacer and abundant, Viernia, Formera

Tellest trees perhaps bom tall, general assers perhaps help they that, repidly become my more entitled become my more elected banks and sides of cleaned banks and sides of fresh below along trails. Bromelians formalish permitted from a trails.

groot leaves in morning in the. all remember. The way a tangled man with Chrisquea, small galms. orcasional amergent been, some beleva. engle and slope a targled most, 1 - + you deep, out glanding ate with occasional energed paters and other - Mariel Turca In lovert a dense who growth of Cystanthaceas and a palmilled to the ork Carladovin will about of Patiernen, etc On and stope just below summed udge thee our larger, well brekerbred with Branchada Russia

ele Clethia more

To ther way

1942 Trinidas 42563 Trichomanes prinnatum abundane in morn bank fronde erect. 44 Trichamanes vispum 1. common in north 2 65 Creereypselum 1000 m July 7 - summit ridge of El Tuchele 19 getye Co. the in wet dwarfed ridge- to, serul small trep; - puits 66 Torrubia aggersiana occasional legender pendulous, fleshy, black when ripe. small tree, staminate 67 Tombra eggersiana reasonal a Boneia vertillate 68 grammitis ["xiphopteris"] trenifolia (Jeum.) Proctor tuber translucent. 69 Utricularis alpino Juy. flower white strading to pale yellow ouvalaris (Vall) Mett. ex Knig \_ within. 70 rephrolesis anderoles And erect epiplingtis on tree trunk (others terrestra) small tre (others & 20 m.) 71 Clethra bulder minny 11a occasional chasquea along trail, chimbing 72 Oleandre triniteusis Maxon det G.R.P. rare, on the trumbes 73 Vismia verazional same - query rummit 1000 m. 74 Trimezia martiniquensis blowers yellow 15 Briang reticillates ered; glowers white.

1962 Trinicles 46 uly 7 - trav from maracas to top of northern range almost ail in con to plantation Phyllanthus comma 77 Wedelia 79 Borreria lacuis (Lam.) grusch 79 Thetypten dentata (Forsk.) E. vely local 80 (montal) occasional, edge of cleaning 81 Sclaria 82 Polypadium astrolepis Liebm. shiply tie on cacao branches 83 Volybodium polybodione common eliphity in cours ality trail about , mile below marries 7 alls, 15 roadredo 84 (Gorneria Laevis (Fam.) grind. 85 Phyllanthus common

125 m.

rachis (branchlet) notably

-thick.

blowers yellow

flowers white, corolla

-lober pubercent within

54.5. Jond, arex.

dit. Peperomia, volundisslic (L.) Kund Grido Mathieus

100 m

garage Co

flowers white; wordly within, erect, unbranched, to 0.8 m, flowers reddish.

trafficher of more in the day.

July 8 - 1 the form - bill 101 the norther and a se franchy elean of the meder bull most and my new order ex stores. Torbably their hills and to dry for every planting, They do a said to be trungt " each year July 2 Large areas at the boxes of the Morthon Range as un pastress and muchoners cult. The central front of the plane is a wast with a few watered trees. aturatory recombany roads Last of the are one of corner printation - rathe straine, much replanting. has some country, who Constrately all is ide at no time or other) Then anddering , god before up. 1% the flat among bearing worder story ofto area own is in places predominionthy office Mirch barrens persone comme Benton early 50 yeartaneous

From a mile of 20 defect on a more least of savanana for at board of in clearly land out thicket and putches of from present and putches of from front else for transfer and patches affection fragerations and present from the formula front of the most of the

Deyout Valancia local alantations of Colofilyllian ap wit mostly a ranges reundary freet, war. fralm objectant, locally derminent. frew large trees last, gradual change to thicker a connoterable cleaning, sime orner still rather densely - was soled Jange grande Fair ruled Entry 1) eyoud some citure orchards.

1962 Trinidas

July 3 - south east of Valencia Handens

12586 feleria occasional in undergrowth

expecially it enger of fort 67 male) Water a li marione congrelou H3H

82 2 Cex

87 Mahania? common on hummorely

90 Malanea amire commendation. recasional

91 tertella

92 3 - Oltandra articulata (SW) Prest (1 to Booth) very local

July 8 - aripo Ravanna Co. 93 Thoming silt soil.

94 Spigelig wet glaces

95 aeselynomene sensitiva s recurrend in wet place

96 Sauvageria

35 m

tranched langerous sur-gras fruit reddish black ower white

eact.

slander show tall stender shows, raceme pendent. flowers stor- lavende, - stamens maron. offer clinking on the trunk

56 1902 Trundad 4 ruis Dirdia erect, fearer white. July 9 - arena Trest Reserve, 39 m. about & miles west of cumulo st. andrew 6. Parpalum longistum abundant on words shaced patrin freet 14 Vismin eggersiang Heimer send, show 2 m. Tell dent of periantly reddish. 15 Trama micranthy (LI)BL. stende shrul 2,5 m. in cleaned was in borest tall. Ryania speciosa. slender shoul 3 occasiona in m. talf. thinned frest 7 Apermacoce common along trail July 9 - 4 miles northeast of Dom. Langre grande, Al andrew Co in dense birgh rain- west dominated by mara 12 felizaeg elegans (Vall) for Jussiaea foliobractereata nung petals yellow, notably locally abundant in disturbed muddy place along logging road to Palicoures Thys scarlex. in sem- yer place along logging was

... c. m. e. of targle grants Pergond & respuesto & donotall sout - more Palms port abundant. Mun trees reach 150 tal. They made this to breat been destroyed - clear end ... Vhora forest - partly Harger Lace will -Very English the most - 1 - the over only to be engly apparently the enter compley to at total mine wants stathered second atory treezed several aprendi then an almost freeze lage from 0,5 to 3 mily mora seedle you a few acattered freen audling ymmin grant. detally a few serges Office Strong 1. Harley carge tree we - 100 m apart, Broken war it me 7-18 m. white it i Charles or 62-2 often I Francis

great mount of detter against the borserof tree, forwer the buttrasses. my ou of grown megular with tritt and some hummed Litter on trype points only a few in thirty in gray soul. De port to Iday or only soul anglomeras condu will be windy on tright in Jelie also histologeline Chierry Farm (2) seeding large not lown, and sending masses of small My to - Lehran Very few tree hanns but decamona erromeres one ( teloto) your few ten less in Shippingter Brokens & ligitality than buy abundant no the combine consider descorrence from Reaf to triply term older 26 miles freach the showed layer, mora medlinger some of they structed of gran in really closed. "

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The first called his ways wallows " are not ways attituded the bland of anthum. The ways of deep young on it deep the gray sand, go it deep the money of the first of the firs

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1942 Tiniday 62 Why Harris and. Legy in lease proces The there of they Howally wither leave Teal strader almost everything out - grown to be The - perpetuates to dominat to moving - the - deleberate of accidental of best surement but a majoren - column 21% the John I - Camed To be on much in it works, bugh, where from the tool day a stick in even a leaf a for test weeting sher and there active change of stand sparet from themeno. that the work not very effection Ane material about terror of our governoution in not away. of THEM SO MET IN THE TO 15 MI to content many alean justes. the meating and tech of class mand do now diviellar sal.

per to the - 63 Brickfield Bother, Road en Control Bange Right with THET I THERE Menes all tend 1 another reverse of 2 40 ans around next drouge (Cigarrel - Mouse garanties) Blythe meters rece w men Hangmann Comme on overday growns Ornamentale & other plenty lettofolionen ferregineur Cyclic corrector Codiner waringatery Theobrona carry Cities sevenies sed mays Coffee nobusta antocarpus actelis frankrenne indeca to hoperone having case Condyline fragiers Marilet excelous whena rapienter Mangragadisian Chrysolodocafer duloca Sornanda saman Wayyifen indies Bambaca arindinace, your Myring quilfoyle Carles Makayo Jacehary offrenama

Spornola fistulose Corcos minifore Lerminalis colapha Eugahorbin truncalle Wheaven occidentile Hymerreally actives Chitigorou allamanda Samue alegans Carral from gulchausen Dolchir regres. Nexus intiens miratilis galaga Livistons Cliencini Royston oleraces alancam commigram Choco shallace Humbergin wandeflow Zertona grandis Phrystonea deracen Catharanthus rosens Odontodenia y ran y long Cordyline pristresse Caryota when

Joan and allow Eneted from the world by Consequence to family the The Thing.

Jane greather transit

July 11 - an light Tremeles pulborders, artigues for fee languagetes ( Vascyant, scrift and) 9.01 leaves a black of sugar but northy secondary forest, with perhaps of the true of method extends for allegation Currents different set langely opin grand J. Jag James Strade in Finishing woods solofor Connects on solidly moreted one clearing a brighting agreether at all "The approved devaring of field on crests and summer the force would regular I was in wooded Is the weard. a meny free clearungs on on a terr down nedges and a village or on front - undoubtedly matelot.

alouds in right

( to p. 63)

66 Trunidad July 10 - Mt. Harris Fr -Kerenoe 42421 for accidentes ever en la level & 22 Fevilles cordiffe L. edge of frest 23 Pentaclethy manglova (Willo) Ity common in second story of frest 24 wholis glamerifers a bare soil bendy road 2) Bidens mater lancaples West common an rocky roadside is frest. 26 Medelia fruticosa freg. common in spening on hill in borest planting 27 Jonyaligunia July 10 - It augusting george Go of Jana carei Hance cultivated in garden

Purbados ha los sea close and a nerica wide transport met on the courtleast every becoming ton and former a second, sendo and there. I hand, reco faithanin of the marin Commence agreement forces reliner regio Coers muitare rantang selloumans Cordy Law fraterior Kuddlein (white, large meson - San Barenties Defile defer brownets we fracers acalyption withour Catharanthu 1500: letrain withit supplied a fridelier mo I halotendon to go desire clother - Egons alones norman strander Gyour american germinalia cordefina l'alen minosofitable foull exarpments bounding terraces were a bet of natural haven the english of blacker a little gollery send along bottom of rancine the ride and in places a letter adjacent land growing. Interior

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er william Pagy to more appear to toward a more the declinerged tenned - 12 needs and overments him relate actending without along constal of mouth promise out of the comme to the year hours I want in of the Everyn man wit. Worth fremento to get grant for const in the older hardelity pro antique mountains mostly then sent tograce. densels aggret to mentiones-Crettertalian suntal, mentions some years particle of some expectably a naverey. Care slotter ground and gentler

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Siller you was a committee whitem wangeding Complex desty in execution in and of such of side a liquidity reighter one with tomothy - with the server - and the on Cleratum. Winds, mysley wither destaly meterranged need of withe art cover, from a baying mel off east Grand St. Ketty war in a grantly and well slopes outworky or an parture - was along - reducting resum. how may differ Grates appearate worded but mull inclouds lan granza gileto then a course of the Thomas Turnley and a monall insquee served governed sociated andle was with in distance to last. every amaliand industrine a lige and

a minimatery me assessed.

Sweet at by Peronds Rese Ton 1

- congram or int pursuance Con

most Enjuliar Juna. I belt

1967 Resserventeller - Presty Pick of fruit along a - it T west, sugar com whis in gentle slope, a kon er sand ranning interior men committed about - with send but he do and slave a strong front and much der with want neing least ord wat Wina nother medaly walningout money acres of shalless = + 16 tun from Better - exp fred in front of east word of city. Lange lagren with medgered a variety between its and anger! In Jores Welledown Lewender

Part may west in the operation of the second of the second

July 12 - try to Cano River Long me. back of Kingston rarbh - covered by a closed somewhat thorny merophyllow servet with restrict small where not built up, corried By them serub Prosopio. Hope River bad in a wid Clark River, also, has a triskle of water atternating with Prosopies server Turned wh carryon with steep limestons walls covered by microphyl scrab Delones abunctent in bottom.

Can River rails stream goes down a limestone you to to well to XII RIVERS & CAPS - PIRRURE IX a mel Chot germer - the states of at fore had thought and Vinner Harriston Comment mentale not explicit for " who weell I am all a market a to a to so other character to dit me a more of the state of the state of the state of the Catalfia forgissma Zeema - Nams French app. Emphorties lacater Hadger

tills bet - Come it & Hope R 1000, Dallas? servis changes, to send forest and fretest represent geglie bells grace is 2-3 always apper Carrie I draing From on of the Dalla, mit) 700 -

1960 Jamaica A andrew (aux 81 80 July 12 - newsterd River 42627 Codia co locreca dull greening orcasional ( fromering out of riason) 30 morinda moista L. slender shrub 25 m. - tall; fruits greenish yollow, occasional 31 Phyllanthus nutaus shrul i mitall; forter redding green. orcasimal July 12 - Canyon below Came River Falls in deep limestone gorge 2 Breehaving differed to. stems lecumbent, panieles iscending, leaves hale beneath. 33 Phyllanthus erest should 0.7 m. Tal oleaninal on bone noch ledge flowers reddish. 34 adiantum tereum common crevices small should; blowers 13. (governer, I Happy Willer .... - yeller .... omman in crevies the cliffs on east side not seen in west side. It Phyllanthu amanus lig Tg. relaxional along tail 37 Spermorer puffrutereure you plant spreading; flow mmon in every, and in trinking, closed in afternoon. 38 Englishing glomengery (milley) Wheeler mmon along trail

1907 Jamares July 13 trip from Kingston Um Coratellin With of devide - steel ecopse, mostly on a period confirmenate unacalancous on the myst part. Very tetter maturas vegetation. mostly a mirance of small call. pately Chickels, corconit grever Cambro dumph and throught, from notes with or gollow in tilled a sex that is the form curle in Compressionemen. Casteller Garden a wear wheel feelt lottemen garden will a world despitately present and may never land ander ducto freets many good halms ! - H Mary Barish Way writer / - 4 menon point in though of maple and a figurerium \$2 -3 Rodin 1 Mr samed gran (Degran Page) Lugar care on flat botten I wanter of gran fallow - Porreum

Marinin

Trent Jackson it miles to me where we have a second where had verify the had verify the second of the second the manual of the second the way of the second of

cliffy well back of shows to all studing, well some of perhaps to all preserved signs, 5 mins.

Morath of Jums River,

pure west of Orche River

Woosked line Ciff

of Lines of mort water

cascading of the over a

wants seen rold trail to Harringtonia asiatica gleverder saferen ancen -marining Afrathoden carappanella Ta eterena Mumbergie grandifina Qualypha wellesin from the Commenter to Lundefine, running Caradens election years angented Coloniem Son regenting alternanthe of market Tremer problem Mulain Frankoflow for the production Residence of mile of forms acrea whereany weco lathe wife a My ogrammo calonelinos actorismo belangulylling argement mercina ( side gray an Lippin hostifier Veryord in see tantera gaman arrea arala rup horbin tirurall morninda citrifolia otyseras gulfoyler Terres umbridge Cananga words Cadenais examina

Packing aculerty facurana muchina edilanthus tithymairiele. Citizes amountifolis Citur sinon Franthemmy pylebellion Callistephus Chinenson fiere framela abtendemondance discount Barlein Francis Harmolo Kylis Colone souldland Clared orderen uganetens Latva splendens murapile galage from lone makingon driver mounts tolorium lysoperson ity propriation in calvindanos alliza lebbet Clevral abones Eferetia unifolia Lanseveria gruneensos gerbera jamesni moringa olefen anicum maximum frem carre thumberger grandiflera or come Retrick falvia coexinea Acresio (marge)

Leverting transcriber of and on the conting transcriber and the conting of the co

form Gully a winding limestone garge wheth surely stordly, with menths forms on with minerals of the sides ( 15 sty rea of wells).

They exact new copen food or savanus of him and wild him trust the freed on however of the second.

Alateon above forms fully to the momental divise forms fully to the momental forms and will have to the momental forms and the the momental forms of the second to the said the momental forms of the second to the said the momental second of the second to the said the momental second of the se

between hillrehm

Intertone wasy with a hast side to world all and sold two well denous. Column of the world de a formation of the world format

canyon of Ris Copiestedy worded limesters walls below Box Walls. Very ving scrubby freed.

of pens out after - Lorns miles of a plain morely on the sugar care. They savanno with a little ingeter care. I work a little ingeter care. I work of a partly with a partly with a partly with a partly with property. I work they will a partly with a partl

1962 Jamares 90 a magnificent often quass. a great southerned Coila Inc Savarro with low Crosoper mergy it. Arosopie sent. July 13 - South of Walliams 42651 Spermoiore Duffruterine Jacque scrollas bink so read embanement July 13 - Choull of Dunni River 52 fobelia windiflag sem untranched, In till, dase of limestons clift flower zight green. July 13 - galing Point mice of & manys Parish on fritted limestone pat back of low contact - Charles I was I was 53 Carsin durang shoul; flower yellow. organional in open serve low shrub. occasional in open soul 39 Cyberus liquearis L. orcasional in open low send tall glower yellow. 56 Radically - 12 1911 very common in open dway sout vin twining over dusker, 57 retrites unreite to flowers white common open serve

1962 Lamarca 96 July 14 - try Kingston 4 tander Eaton Wall - 2000 sometimes are to day. from Dunner Box def in front of bong Herm from store at rebout acathery and a little encoper more good a very selvingate attenuely in but, not a thinged formation who is the ledge. Buck of the The anti- the character of an Something the section of the section The olegonorms and or the nech showed of it dayfrom of justicof limeter at about right about mean low tool since of good part of the she willested a completely the pritted somewhat below high lid level

Jamara stend 42484 Chalassia testudinorum forming sod in shallow water 25 Philosing vermicularis prostrate, sub-franky common on som should up to 1 m. tas; 8. Bornelia local on domestione rocks granish; heads yellow. In ming tangled Tricket 87 Colubring meiatrics 3 m. tal, seaver y says local on liverton wells formery flow- green. 88 Halimeda gravilis in leep water Halimed o goreaning boulo in deep water Bryothamin triquetrum (greet) Horse on reefs in shallow water lading ... on reefes and fluts in very shallow water 92 Turbinary turbinata on rocks in very shalow Hill, about green Buy, It, Catherine Parish July 15 - the bound it lenderson. in dense mirrophyllory serve on lare limestone 93 Canellia fragrant should I m Tel - slevele mound 4 quaiscum officerals small trea 4m tall, common - truit wange - yellow. 95 Crostema caribala ets shoul 25 m. tal, almost leagless at this time small tree 4 m tale lathers 96 Bursera simplicifotia shrul; rife greet red. occasional 97 Chacong and occaring 10 M. 101

July 15 - try to Part Henderson arch.

Hill impally came where and mark rank and rank archive as crost is approached.

Batis, then

On bull strell the regatalin is relatively industrated - a sping serul on born with -Carrie of - jurhales rener common struct Cranic Capping Lehroppin, tehnefring Preciolin Convelation welsting ( wer granners) of anne, Blockery, - farerphales Bruin ( 1847) agence of Green Brinds Cahellin, Bernachin Heliotopum, Me topum. Rhacona, circampieros. I herring - how or brook - net sod of home met - office to be materia Parsiplan profestinte

This is a predominance

102 1902 Jamaico (tol. from 10.48) 42698 Pisedia common 5 99 Surcomphalis commen 42700 Tabelina rearrand Of Bourrein occidence (DC) Galle commen or Passiflorg rone 03 Torrebig nane common, climbing in arborescent Cereus 05 Barbinis ringston cultivates July 16 - DEwarton - Worthy Park Road, grade above River (feat), St. roaded in scrub frest in steel limestone slope.

06 anemia

common on

common in

08 quettanda

recasional m

07 feleria

small tree, 4 m. tall,

- flowers yellow green,

- fruit green,

- thrub 2 m. tall,

flowers white

(other seen, sterile, with

leaven much larger)

vine climber, flowers maron,

thrub, fruit green,

elimber, fruit green,

salmen colores.

Galherene Paris 4

thrub gm. tal, but white choles withered.

men spanish Town I - replice

send and word frest in

small bulls mentlered

loseful sand comments, mange

should not comment, mange

should not comment.

Canyon below I soy Walle is densely up orded. Much breakfront on John if salley. March on the salley of the salley

Committee plant were English we consider the terre were that a accumulated in definition of the end of the consideration of the conside

within land willing a contrary of the first of the server of the server

Liffy by Catherine 105

Liffy by Lille Lille Val

and Crofts Hill 
Liver try Little

partly cleared mas

the places on

Mazon Kens- for none a willing feat and surrounded by helling to me there or growth and lout That the other rade Celosed maner of when my species of seeder grasse, the several forms, Contally ele. herbaccourin places, in other places mostly Thetastomaccar in syme arguer - cartered Cyrilla, Jan elethia, Cordia jamaieres Engenia, redota, it Low areas at an boggy with his moreter of Blechma with deep channels between them. Hohagnum is channels. because is diminanta boys ipparently underland Ma claylar goads above five Hand or it includes photo ( broduch from Hell wolf wintly Parke - Cooking along would lake V. I Parke

Arme cultivata

July 14 - Hills be trosen
Relaidas Valo and Croft Hill
Cenendon St. Colomina Parish
in thishet on steel
limestone slope
limestone slope

42709 Lantana camara L.

7 10 Portlandia
meiff
3 11 Croton
3 12 Monroea horspallia
climing in the Type

1 13 1

15 (World) - to

crearmal

16 Lalvia,

1700

- should in tall; flower olus.

- should in tall.

- should in tall.

- shower; & corollar deeps

maron purple, girm,

glossy.

- blower lright yellow - small tree petals - white stamens yellow, aromatic sufruterient.

Jamaria 1742 42719 Laseracis flowers puntish 20 Boneria common on roadech 4 feleria - - common or reactive 22 Cheilanthes nave at base of cleff som rad showly; from white. 23 lordia jamaicensis occasional. shruki flowers white Psychotria dung? Stachytayhets of jamaiensis flower medium purple, occasional in roadouch - not very pale. IL Eugenia acut sepera licetor amall true, flowere ancomplexous, white. (Being described as mosty Proctor) July 16 - Hamarotora shout 77 Pilicourea putcher Ender July 16 - Kellitz, Clarendon Paint 600 m. 28 Lenecis discola shower, flowers had. roadsid thishet July 14 - Maron River Lavanne west of Kellits, Clarendon Parish on rolling open ground 29 Jamoes Will II climbing on small shrubs in savanna prostrate, brining mat. Panisum polycanton Mosh

42 pamaics procumbent a recording 42771 Panceum occasional in most savanny prostrate; slowery 32 Coccocypselum immon in mount revenue 33 Cuphea posses .... formers bruk rare in savanna 34 Lauragesia flowers white. 35 agalinis pelleta flower whitish verusional in most ravan. flower me fing. 36 melas.) 11. common most savanny Parpalum notatum Hingge depressed. occasional in most havenny 38 Lecens I put you to get a little resaurad in more savanny 39 Alleria common most savany Lelevia - in moist savanna event of lower gettow. Utricularia purilla common on open mud. 42 teleria well drained should 25 m tall 43 Cyrilla flower white for young oceanina in well drawed - fruit greenish. saw, but the young 44 Cyrilla - prit seddish. leaves ever. 45 Centelly repands fruitary stems erect. abundan generally in savanna and seril flowers primary white, 46 thermore of swell hained

July 18 - northeast Cay Plants noted desurrum portulacactum Townsfirting argentes Cypenis liquiais Luciana maritima fortulaca oleraces A Paspalum distrehum

The key har a beach ridge around sides and a shallow depression in central portion. The has some salt water and is mostly covered by hear worn. The extends up almost to the top of the inner

Set a graduated stake. with marks at inch intervals in a small post now noth end of tepression. 10 me on mely 8-12 noon 6"

21

5 yr.m 5/2" 9.10 - 74 7.02 pm 6% 10.01 m 75 10 8 530 pm 62" 7:30 a m 7

Bends Jange flock of frigate brid 2 69 total terns, many scattered noddies, several seen 2 houghing gulls 6 Royal terms Be idled terry mainly resting, plying only and coming to vertigain. Boulder ridge on matheax side of corals up to Im. Is more in prentert length largest noted 64 x 39 x 20") mostly apparently single weren. Land in interstices in lower layers. attering up. reallered in these boulder to the unner edge of the most bundant in B-E-D mat.

Befressin with water said to have resulted from phosphato excavating Eyanophyceae evendant is water forming ? coating in bottom which

trigale bros animal about 13:33 a.m. soaning mostly just to windward of island. numbers increased, then fell off tell at about 6:5 p.m. There were may 18 left. forty terms rested n with busher etc. facing into wind, mostly in windward side of island especially in boulder ridge. When! approached they seemed a fit reductant is leave. Royal Irms congregates on a beach with fromt at south end of relet. With them were two languing

Roches in beach ridges are notably large seedling, forwing in pits in rocks. Session and healthy but in places where it is proving it about to water table harthe leaves dead. stems still green.

gulls which soon left.

The erns stayed sitting

for a time.

in the west nich is broad and of sand, on the south frant of east side a boulder ned ge has been covere by sand. great slabs of brackroy have been thrown up on a over to lot of to seach udge in he southeast store. ) natout the middle of de west side is a stretch of boulder ridge ut night land crebe are prite numerous, but not very large. seem & be more abundant back of the beach. heavely wing nees on beach proper, and more going down to clo with both land and thermat crabe seem a but more numerous toward the south, especially harmet new seen at south proint. Portulaca ha 20.30 slamen fls 7-10 mm, across.

Juny 19 - N & Cay 4 noddres near s. and 2 sandwick terms (light back large blackbill) on s. front · fright bird at 8:30 4 - 10:30 25 2 11:00 hand samples to wellover 100 I south point windward 2 · · · · · · · very close egether (2 m). 3 150 pares m. on east show intertidal below a small gravel veail same, storm bead above small great beach. (also med. Trumentia fruito from nearly plant). I wan about 100 paces faither north, north, of last Luciana sand from back of crest of boulder indge 6 - in west side. 150 haces from point, intertidal same, well work 150 paces father noth ments just below extreme swany. 9 from to, of intertida beach

Inthe extension of s point has been removed by storm, leaving beach roch retur 1. nume series of bear wo-De former 4 que strants cuerta This is strongly fluted a chambled on inner ride, rather irregularly but strangely mostly strongly underent ind edge is toothed. is wave break ve it the current is very strong downward, mud less water goes back Channels in covered by algal film. 2. An megular eroded snag of higher beach our from which a sample was collected for surface examination. and undieds upper surface. Foren was certainly protected from much branon 3. albe from neuman in in pot hole on surface evanish Bottles in etc.

- 1. unserts speders, etc.
  collected in tent and
  immediate vicinity—
  tent pitched on fessionium
  mat m sand. h. Try
- 2 Bottom layer from sweeping furiance sweeping fernium sweeping fernium
- 3. Fand shell from surface of ground at south
- Hermit crabs from
  w. side of M. Lay m land.

  Land Crabs from
  w. side ME. ay on land.

  Ghost crabs from
  south point of
  M. E. Cay on beach.

  above night to level.

  above night to level.

  above night to level.

  only seen her

  Ettoring from top

  of boulder ridge
  on east side of cay.

  oneds from Tourneyotis

beach (Halobates) and in

low city in boulder ridge back of beach well on w.

- 7. Insects from not cover of Explant beach redge black of beach redge to south point.
  Clarge black beetle
- 3 Insects from Townespilie graphalodes, Southwest
- 9 Crabs, etc. from
- 10 Insects, etc. from under nocks in occasionally flooded depression with Cyperus Medder. Meddle Cay.
- I ligard from under stones as in 10.
- 12 granshofipers from I transforting young on said cay
- 13 Minces, att from
  Tourseforting,
  firstluwest Cay
  14 N. E. Ca, under Vesterray in
  con with forwarms

Two large swallow very dark blue almost blue a brack, light tan beneat, taid dark but high the land made shimming the low terminant beautiful bounds. (Buch sai blow? I have a manner of the last evening, in allow?

Chumps of Cypeurs near south fromt all or practically all have ants in the not crowns some of them at least a species, a yellow my and a black smaller re which varies greatly in size. Both in rapidly when aroused and the wary me tites vigorously and painfully. a few other insects sies found is they nost crown a beetle or two, sellembora, it. along the west show of south fromt whole 50 yards worth, or may is a low cliff set un a beach ridg of some frans, etc. In this, in the

enterstices, is a factory diverse fauna - 2 spp. of sepiends, 1 of machiles, 1 of machiles, a precedoscopion (not caught), (There in vial # 6)

the open vale wear the central depression are lined with a proble mud-greenish an with considerable organic maller (angal 1) in the upper and a half. turning to gray, strong felid order, at least justly 425, for one of two inches, then changing gradually 4 brownish and becoming pale downward, also becoming more sandy. sample it brample is a mester from where 5 when The areas of becuring ters to be nochy The central parts of The rated especially in the write part, have man, ingular hearts of stone. Perhaps remain for my phosphate mining waste malerial!

ettracted to a strong coleman cemp.

J#1.

fine level with some to how from pool with stake to high side much on beach &-w.

19 - - 11

2' - + 81"

17 - + 11"

7 - - 28"

7 - - 41"

July 20 - Louthwest Can Longitudinal de prossen almost do length of the can surrounded by sloper covered by luminiant lawren me like of web scatters nomerally

half senter plants

Parpalum scatterer, also, and toward central depression, forms sizeable clumps

on we said transmany of and lyles a lew ting sufts or Birds ..

1 15

more tout in when in bus her

#### by F. R. Posberg, July 1962

- 1. Insects, spiders, etc., collected on North East Cay around camp site, on Sesuvium mat on well drained ground, some attracted to lights ar to food. The area is a wide sand ridge on the leeward side. July 18-24 '62.
- 2. The insects in the layer above the cotton obtained by sweeping Sesuvium. Those on the bottom collected by sweeping Suriana maritima (mostly not in flower). North East Cay, July 18 '62.
- 3. Land shell found on surface of the ground under Suriana maritima scrub on flat ground inland from beach near south tip of island. July 18 '62.
- Large jar, North East Cay: Land crabs from broad sand ridge on west side, burrowing. Ghost crabs from top of beach above high tide level, near south tip of islet, only seen here. Littorina, common on high boulder ridge, up to 10-12 feet, clinging to boulders-apparently most abundant on highest part of ridge. Hermit crabs from back of beach on south half of west side of cay.
- 5. Insects obtained by beating Tournefortia gnaphalodes, south end of North East Cay. July 19, 1962.
- 6. Insects, spiders, etc., found in interstices of low cliff in boulder ridge just above high tide level on west side of south end of North East Cay, July 19, 1962.
  Also Halobates and Lygia from beach on east side of south end of cay.
- 7. Insects, etc. from root crowns of Cyperus ligularis, back of beach ridge north of south point of North East Cay, in rocky ground. Each clump had ants, usually both black and yellow (the black beetle was running on the ground). July 19, 1962.
- 8. Insects undregiters from Tournefortia gnaphalodes on Sauthwest Cay, July 18'62.

North East

- 9. Crabs, hermit crabs, lizards and grasshoppers from southeast side of Middle Cay, July 21, 1962. All were under stones in low spot except grasshoppers which were in Tournefortia scrub on beach on west side.
- Insects, spiders, etc. from under rocks in occasionally flooded depressions with a sparse stand of Cyperus ligularis, dark gray soil. In southeast side of Middle Cay, July 21, 1962.
- 11. Lizard from under stones, southeast side of widdle Cay, July 21, 1962.
- 12. Grasshoppers from Tournefortia scrub (same as # 9).
- 13. Spiders and insects from Tournefortia gnaphalodes, Southwest Cay, July 20 '62.
- 14. Insects, spiders, millipeds, earthworms, etc., from under low heap of stones and conchs in low wet saline area, in Sesuvium portulacestrum vegetation, near middle of North East ay, July 22, 1962.
- 15. Lizard from Sesuvium portulacastrum on low sand ridge, North East Cay, July 22, 1962.

After these have been examined, please retain any that are of special interest for the Institute of Jamaica museums and forward the rest to

F. R. Fosberg
Pacific Vetetation Project
% National Research Council, Washington 25, D.C., U.S.A.

I would very much appreciate names for any or all of these, associated with the lot numbers.

July 20 - Louthwest Can Longitudinal de invision almost des lengt of the can survivant les en enteres prices of the can covered by luniviant les enteres met acatters remarks to the or northwest conses.

Townelster on beach male senter plants fit wound the south

Paspalum seatherer, also, and towns orgentle clumms

or we say has many it holes a kew Tiny rifts or ! Birds

Multitudes of soots, Inc.

rome with Eggs, not

very jew.

large Florile of frigate

bird soaring very

windward side.

Crowder olange, need.

brown boobie.

hundreds nesting a

fat ground a east

and south part of ear

moddies.

plylot.

nests with eggs, amale

accumulations of heseries

and shelle a doubted betale

nosts with eggs, small accumulations of hesworm and shells in champs of hespalan laughing gull many flying around protesting when nests of modelies when are disturbed

royal term? very pole above, black head rang, beats - but small than beats within a ferry formation of south the ponds.

( postable) around the ponds.

Fandwich terms - with royal terms - with royal to make all san to be made of Lesureurs.

The made of Lesureurs.

Modeller when in son her and 3-4 maders, 1-7 ma touch.

clump of Cordin on and only a stury left of sentral tree persphered her beaten level street clumbs and control of the clumbs and there are the clumbs and the clumbs and the clumbs and the clumbs and the clumbs.

sample of sand from under modely next in lessures mats

many noon y ments in Trurnefative busher of Jesurely Tournefative has been hopped a vary I some extent plots)

A several of sand lots and seen in town belt of transfer on the sent of sand belt of the sent of the s

Photos

panarnic series south from unner eo gest same near north eno showing sorty tens, gelts of vegetation & front focally much fortulaces on sandy places on earl lead udge which is mixture of sand and cofbler. also on of consolidated province platform just inland from beach udge perhaps 2 m. above front level photos)
Cenhaps helpassage.
multitude of sorty terms y few sandwichtern. a few of the sorties have Colony of 30 - 40 dright bud vests with almost grown young - blish evhite heards, can bly a little rests we mounds of guand supported by broken tournighten branches, but definitely on ground Colony perhaps 15 x 300. in Transforting on windward side. (photos)

me side with many

from cooper nestingon ground, nexts of Portulus with reasimally, rangesom greenish white, icancely stretted. many hinds all regelt one seen in adult plumay a lea furrang clumps scattered on this flat. (theotor! from mat of Lesuving miced with Tortulaca, ou. Vargalun. Patgher of phrosperate mattonin common have from exempt rue. ter large encular potale of erwin many many many I stulaca in both love sand and in consolidates on semi consolidated phosphalic er gomerate

around south en a soulder record for the south of the south on out of the south of the south of the south of the south of the cottles and the cottles and

fast math of this in unner edge of un beach ridge is mothers werhanging phorphats platform (sample) grists)

moddie, reen nesting in all plants each relight of seafour, etc. always at least some semblance of a next always little remost always some shows.

Principal vegetation

Trunce ation secretary

Intuition Plats Proces

In teger a contain

Flashalum in sentters

on beach volges in

Cyperus but more

local me committee

on a mound of sand

Photos in 4 ferred there, in 5 started and mostly well here funished on his ing, non its play had not freely some his in finition his

Lamarco - Petro ay 42975 / runefation y naphartes low rounded bushes Im tall, gray. abundant on sans, beach ridge ienson wolfy ones 76 Cordia setastena L shrubs 1-2 m al, 4 pew lumps on flowers rearlex. north west being way I said to have been introduced) 97 Cypherus ligataris L. erect clumps; reattered locally of leaves glavierus. were stoperand by of rand ridges. Parfralum distriction spreading when young, reattened generally borning erect clumps musland but not ubundent when stoles ill seen steril. Helistopum wasserium in ledger of prosphate emplomerate in south end of idet 42800 herming portulacastrum ! prostrate, fleshy, abundant on unner forming extensive met, slopes above fronds und stems reddisk green locally molats leaves sub-y vory, flower - rose-friends Portulary oleraces t trostrate fleshy. abundant in flat sandy wear July 21 - middle Cary on flat calcareous, of for sally phosphate soul. 02 Cylerus ligararis L. evet dumps, for stands escally leaves y rancer.

140 1962 famaica - feder Cays

10 - mud from bottom of small pool in central depression of M.S. Can

11 - sand (phrosphatic?) from under modely rest in desurrium mat on unner slope of 1. W. Egy

0.5 m. away from next

from n.e. side of to Cay

14 similar sample from

July 12 - month East Cary

July 21 - notheast Cay deveral sandwich and wys serve sting wath point. ever swallows frying ver resurrem.

along east coast beaching is continuous and corner up to the edge of the boulder beach and extent under it. There are a retter. ing of fairly lang boulder generally lying in the beachiroth surpare and jenerally a belt a meter is so in width that is straded white, almost free of in regas out probably from in rolling back ind forth of the boulders when the waves as rough. The area is new by for smooth. In some places of ensprenous your racks. und v-shaled y one from I to stule more on less devels ses

Boulder redge tras very large ceral in coral fragments. But most seem i to sing a colonies or green of ring 4 Extense nather than of corrobbated detretus of of need frame. Juliotos Not 4 begin 62 - 6 begin funt 12: in of boulder udge, boulders stream zone with faint growing and a mass of possolidated Letritus with Lettering Southward along was are r number of large stooky of consolidated debitus ( file to) lying it the bottom of the boulder black. fasurum sedling, is sand probate on top of one

Portulaca, frainly among mostly in sand, but some Portulaca wins

and from 10. 11.7 1230 - 62 1230 - 62 2:10 + 2

well won 3- 20 paledy sand som slelle & pebbles (rample 19) 20-53 moist pal sun herhan more ray tample 16) 13-63 gravel, with much lerolog concernis becoming lower Zung and with large interstices plouseuml 63-72 Spraner with 72" title sand. water (at 3 p. m.) 77-74 gravel water write sange 18 ( = bottles)

Ino all from p 1411

July 21 - Middle Lay great flat area will Arly a small degression near notheast une forevery around depression on slopes down to it mother hatch of demovin fully of y verus between most of islet covered by a pune, open to close Trighty with Trundpt. except a small strate on somblear. I very doza blu faces bother her on ground I her brown forvier uso Some Pritulacia is the is rather open In recent defosited bear to may around so end. mumerous Trains our seedlings (protos) ( your wo a roman ( and) no black noty is and not very by heart fere is a red flat with son yours and - Tenting

a number of sorty erms

(me downy chield) on seg,

sorth beyond point

suggesting that here
the islet is enoding way

on to stay side it a

The cobble riong has a cliffed seaward edge and how some sand edge and helow to the whole ridge and in it about 4 day below and he whole ridge a not in whole he.

Irland from beach with how or de this went who were to broke or when the broke or when the broke or when the broke or when the beach will be the search will be the s

feeding a fully grown fully gearthe mostle

July 22 - manly bottom of extremely warm

> hard crus agers sample vo

toft somewhat people layer with much hummen dans y hour a from a mother. even brackery strong + 25 -our 2-5 cm. below this a still clay-like man, become ace and more of ramula Louverand, a yew shell and was gragments, very easily broken of January end algel, and sil fragments embraced in the mand ( sample 22)

1 god taken with

a can is I my 71

Water sample from in 23.

Crust suggests consolidation under These conditions.

Ima shower it about 1 is. It The live few drops - land crass came out of they burnes in swarms and crawed about in the servin, apparently aring drops of water I vin no leaves and witting them in their mouths. They stered out is long as any water remained on the leaves, 1 her hermit crabs ils wer seen with he lan rags.

low will in wet mail
where to south end from text.

Leveral bry lycosids, such
ants living with them
the small white isoped. who
where were rather rightly and jump),
where were rather rightly and jump),
where were rather rightly and jump),
while gray report, a glegit; an
enthum, and a land cuch.

July 23 - Kingston & green 1 Hills, up Hogh River Valley has open begetation varying on ord hand to saleway, on the other I closed thicket a frey esp. in some, The more ofpen areas are on slopes and ridges. Panieum maximus is dominant in the grave layer. from about 1900 to 4-5000 Forder hart largely domin. ated by acacia villosa Strong andean officity. Bacchan, Katuriza, Verbesina (Charnorephalus), ete. Where undisturbed forms a dense clased serul, but her much burned and offered. above i 100 nolinis and Tithonia alundantly naturalized. Gleichenia o local. Englern kanwinskyanum common, naturalized (tighen up coropia, Chungo & Widespread reflecies: origeron branconshyaming lugenia jazzatora Catalled longifolis Cinchona Sonicero japonice Cytisms scoparius Hydrangea Tilovelina semidecandra Hedyslium comarium H. Johasolum fragus Junes period Impatiens sultary Cufilia Watycentra asparagno plumosus Drymmia condata filterna crocosmaeflas Selaginella Brausians adiantum radolianum (cumentam Verbena Conaciencio a. currentum L+7 not Forst. = a. praddianum Prest, 7ent. Pte. 158, 1836 Helangonium monale work Dahlia vasiabili. Coleus sentellanoides Clantago mago Tufolium -spons youngin japonica Enaphalian purpureum thely fiteris tonerians Buddleia japonica Catura drover asapanthus topusans

about newcastle, to divide is excellent undisturbed montant sclerophy Cl. at divide much refraestation with various pines and producents, etc. Hardwar gal In month slope - nothing undisturbed montant rain frest - mostly on steels stopes. I des 5-8 m. tall, one tree layer a dense but indictent shrub langer upplyte evends, feins, morre hepatin. Tree ferms common also churgues. but not abundant enough to from tangles. Coledia (photo- Kodo & 62.7 begin.) Glerstenia commo Trees aller in navino 1'odo when Dindyfanas Migravis vines Play artendion of 1.

Scalinen a drown inequalantuly 1-15 dr. across, herity numerous branches which are deflexed and trave erect clavate to crimson inflorences both starmorate and pirtillate, mostly pullate, covered by large flestry dealelike caducous brasts; He needs exserted from have white plesky off by ants, which eat the carrincle and leave the reed. a large colony of anto as lives in the man of Clants. the whole man is 3-4 des across. ( photos). Photo of Kose Hill practically untouched montano rain govert. Caledonia Peak of (Portland Pm.)

156 1962 Jamaica Potland Parist 157July 23 - green Hills, sail of Hendwar gap. on moist road cut in mortage rain from prostrate, tranches 42808 Coccoeppseum under low strules ascending, from hrufile 09 Phyllanthus common on talus 10 Elevetranis culms terete, shorter ones erect, longer prendent in seepy place 11 youngia gaponica 12 Spermacock flowers white, barry within, common 1) Kycopodium 'occasional 14 grammitis semulate common locally vertical bank. 15 Dylaia suny-voudside 1000 16 francia brigonius L 17 foricera jayonen Thurston substantaneous twines, flowers white, turning yellow, - very fragrant. 18 Cardanine husuita. flowers white. sportaneous fully I'm along newcastly Road below histour, St. andrew Par 1 Colypodium strytis in tree in mortery sot officell from

1962 James 158

- 7 rai up mit Here's from Hardwar gap

Ridge with semb Podozarbuz, Hedyramum. lla, mecastomacar.

ATTION

TCCS

PLANTS OF TRINIDAD Caroni Co.

Cyperus articulatus

THE INSTIT

SCIEN

CASSONIX

Locality Caroni Swamp

Occurrence Locally abundant in open marshes along old canal in Khizophora swamp

Date July 5, 1962 AL 

Pacific Vegetation Project c/o National Research Council 2101 Constitution Ave., N.W. Washington 25, D.C.

Coll F. R. Fosberg No. 42549

Remarks Erect, several stems from base

Dear Marie-Hélène,

158

Dear Marie-Hélène,

Miss M. - H. Sachet
Pacific Vegetation Project
c/o National Research Council
2101 Constitution Ave., N.W.
Washington 25, D.C.
U.S.A.

HCCS

TREETMAN

THE INSTITUTE ( KINGSTON, JAMA

SCIENCE MINSERIN

PLANTS OF TRINIDAD St. Andrew Co.

Utricularia

Locality Aripo Savanna

Occurrence Common in dense grass in open wet grassland on gray stit soil

Date July 8, 1962 Alt

Call. F. R. Fosberg No. 42608

Remarks Flowers white with yellow median mark on palate

July 24 - Train up mt Hore's from Hardwargap

1962 James 158

July 24 - Train up mt Horev from Hardwar gap

Ridge with some

Podozarpus, Hedyramum,

Vriezes tanks,

nces

STATES OF

THE INSTITUTE OF JAMAICA SCIENCE MUSEUM

20 May 1963

KINGSTON, JAMAICA W.I

Dear Marie-Hélène,

Miss M. - H. Sacher Pacific Vegetation Project c/o National Research Council 2101 Constitution Ave., N.W. Washington 25, D.C.

# SCIENCE MUSEUM THE INSTITUTE OF JAMAICA

KINGSTON, JAMAICA, W.I.

20 May 1963

Miss M. - H. Sachet
Pacific Vegetation Project
c/o National Research Council
2101 Constitution Ave., N.W.
Washington 25, D.C.
U.S.A.

Dear Marie-Hélène,

Thanks for your recent letter. The Jamaican plants are now being sent; the delay was due to my slowness in completing the identifications, which in turn was caused by too many other things to do! The list of name is enclosed; I have indicated a few of which we would appreciate having duplicates. In one case (#42779) I have actually withheld a specimen needed for study, so for this perhaps you could just send a label.

Generally speaking, these plants were not dried as well as they should have been, and in some cases the leaves are detached. This would not ordinarily have happened, but at the time I mwas too occupied to supervise the drying as I should have, considering that the two boys were new to the work. They failed to realize that 40-watt bulbs did not provide enough heat, and I didn't find out they were not using the right (75-watt) bulbs until most of your material was already dried.

One thing that kept me very busy last fall was our acquisition of 36 new steel herbarium cases, thanks to a Rockefeller grant. This meant reorganizing the entire collection. The old wooden cases are still in good use for storage of unmounted material, duplicates, and supplies. A large additional room has been made available for this purpose, and for the first time we are really adequately housed, with plenty of space for expansion. The next major objective is air-conditioning: This is badly needed.

We have mounted and accessioned more than 4,000 sheets since you were here. One of the interesting collections that came in was a set of Bro. Alain's Puerto Rican plants.

I'm sorry not to have acknowledged receipt of the elephant books. They were very slow in coming, but in due course the boys get them and were delighted.

So far my summer plans are uncertain, but I may possibly come up to Washington and New York in August or September. I hope you will be around if I do. Please give my regards to Ray.

Sincerely yours,

Diele &

George R. Proctor Botanist.

GRP/zl Encl.

### JAMAICAN PLANTS COLLECTED BY F. R. FOSBERG

## July, 1962

#### Det. by G. R. Proctor

42629.	Cordia collococca L.	42693.	Gymnanthes elliptica Sw.
30.	Morinda roice L.		Guaiacum officinale L.
31.	Phyllanthus nutans Sw.	95.	Exostema caribaeum (Jacq.)R. & S.
	Boerhaavia erecta L.		Bursera simplicifolia DC.
33.	Phyllanthus latifolius Sw.		Rhacoma crossopetalum L.
	Adiantum melanoleucum Willd.		Piscidia piscipula (L.)Sarg.
	Heppiella corymbosa (Sw.)Urb.		Sarcomphalus laurinus Griseb.
	Phyllanthus amarus Schum. & Thonn.		Tabebula riparia (Raf.) Sandw.
	Borreria laevis (Lam.)Griseb.		Bourreria
	Euphorbia hypericifolia L.		Passiflora perfoliata L.
	Lisianthus cordifolius (L.)Griseb.		Torrubia discolor (Spreng.)Brit.
	Anthephora hermaphrodita (L.) Ktze.		Cissus trifoliata L.
	Borreria laevis (Lam.) Griseb.		Bauhinia galpinii N.E.Br. ?
	Emilia		Anemia adiantifolia (L.)Sw.
	Cuphea ciliata (Sw.) Koehne		Scleria lithosperma (L.)Sw.
	Pteris longifolia L.		
	Rondeletia trifolia Jacq.		Guettarda argantea Lam.
	Cissus microcarpa Vahl		Lantana camara L.
	Heliotropium angiospermum Murray		Portlandia grandiflora L.
			Croton corylifolius Lam.
	Muntingia calabura L.		Ipomosa horsfallias Hook.
	Cissus sicyoides L.		Gymnanthes elliptica Sw.
	Cestrum Permania lacria (Iem )Crisch		Byrsonima coriacea (Sw.)DC.
	Borreria laevis (Lam.) Griseb.		Tetrasygia pallens (Spreng.)Cogn.
	Lobelia viridis McVaugh		(not found)
	Cassia clarensis (Brit.)Howard ?		(not found)
	Croton discolor Willd.		Salvia serotina L.
	Cyperus planifolius L.C.Rich.		Lasiacis divaricata (L.)Hitchc.
	Rachicallis americana (Jacq.) Ktze.	-	Borreria laevis (Lam.) Griseb.
	Echites umbellata Jacq.		Scleria lithosperma (L.)Sw.
	Mallotonia gnaphalodes (L.)Brit.		Cheilanthes microphylla Sw.
	Morinda roice L.		Cordia jamaicensis I.M. Johnst.
	Borreria verticillata (L.)G.F.W.Meyer		Psychotria aff. dura Griseb.
	Solanum racemosum Jacq.		Stachytarpheta jamaicensis (L.) Vahl
	Morinda roice L.		Eugenia sp. nov.
	Ernodea littoralis Sw.		Palicourea
64.	Croton discolor Willd.	28.	Senecio discolor (Sw.)DC.
	Strumpfia maritima Jacq.	29.	Ipomoea rubella House
66.	Citharexylum fruticosum L.	42730.	Panioum
	Suriana maritima L.	31.	Panicum aciculare Desv.
	Conocarpus erecta L.	32.	Coccocypselum herbaceum Aubl.
69.	Erithalis fruticosa L.	33.	Cuphea parsonsia (L.)R.Br.
	Jaquinia keyensis Mez	34.	Sauvagesia brownei Planch.
71.	Wedelia trilobata (L.)Hitchc.		(= S. erecta L. ?)
	Parthenium hysterophorus L.	35.	Gerardia albida (Brit. & Penn.)
73.	Lourea vespertilionis (L.f.) Desv.	36.	Acisanthera quadrata Juss. ex Poir.
74.	Canavalia maritima (Aubl.) Thou.	37.	Paspalum
75.	Euphorbia blodgettii Engelm. ex Hitcho	. 38.	Rhynchospora rariflora (Michx.) Ell.
	Phaseolus lathyrioides L.		(No Jamaioan specimen in IJ 1)
77.	Cakile lanceolata (Willd.)O.E.Sch.	39.	Soleria hirtella Sw.
78.	Desmodium tortuosum (Sw.)DC.	42740.	Soleria ciliata Michx.
79 .	Euphorbia buxifolia Lam.		var. elliottii (Chapm.)Fern.
42680.	Borreria laevis (Lam.) Griseb.	W 1	(Rhynchospora cyperoides (Sw.) Mart.
81.	Spilanthes urens Jacq.		R. microcephala (Brit.)Brit.
82.	Caesalpinia		R. fascicularis (Michx.) Vahl
83.	Sesuvium portulacastrum L.	_	Soleria pterota Presl
	Thalassia testudinum Konig		Cyrilla racemiflora L.
	Philoxerus vermicularis (L.)R.Br.	44.	
	Borrichia arborescens (L.)DC.		Centella erecta (L.f.)Fern.
	Colubrina asiatica (L.)Brongn.		Borreria laevis (Lam.) Griseb.
	Halimeda gracilis Harvey ex J.Ag.		Desmodium barbatum (L.) Benth.
	Halimeda goreauii Taylor		Polygala paniculata L.
	Bryothammion triquetrum (Gmel.)Howe		Panicum parvifolium Lam. ?
		20 0	- many post and a rem and a
	Padina sanctae-cruois Børg.		
192.	Turbinaria turbinata (L.) Ktze.		

(Nos. 88-92 det. L. Green)

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42750. Fimbristylis complanata (Retz.)Link
                                             42820. Pilea grandifolia (L.)Blume
   51. Hypoxis decumbens L.
                                                21. Cobasa scandens Cav.
   52. Scleria georgiana Core
                                                22. Pilea weddellii F. & R.
   53. Panicum stenodes Griseb.
                                                23. Nephrolepis pectinata (Willd.) Schott
   54. Rhynchospora oligantha A.Gray
                                                24. Calceolaria chelidonioides H.B.K.
         var. breviseta Gale
                                                25. Galinsoga ciliata (Raf.) Blake
   55. Eleocharis mutata (L.)R. & S.
                                                26. Cyperus (Kyllinga) tenuifolius
   56. Fuirena umbellata Rottb.
                                                        (Steud.) Dandy
   57. Osmunda cinnamomea L.
                                                27. Calceolaria (sp. indet. - please
   58. Panicum zizanioides H.B.K.
                                                        send name if possible !)
   59. Nepsera aquatica (Aubl.) Naud.
                                                28. Oxalis corniculata L.
42760. Mayaca fluviatilis Aubl.
                                                29. Besleria lutea L.
   61. Buchnera elongata Sw.
                                             42830. Isachne arundinacea (Sw.) Griseb.
   62. Xyris jupicai L.C.Rich.
                                                31. Cionosicys pomiformis (Maof.)Griseb.
   63. Eleocharis retroflexa (Poir.) Urb.
                                                32. Selaginella denudata (Willd.)Spr.
   64. Panicum parvifolium Lam.
                                                33. Hymenophyllum lanatum Fee
   65. Andropogon bicornis L.
                                                34. Hymenophyllum polyanthos (Sw.) Sw.
   66. Tournefortia hir sutissima L.
                                                35. Panicum glutinosum Sw.
   67. Paspalum fimbriatum H.B.K.
                                                36. Elaphoglossum latifolium (Sw.)J.Sm.
   68. Rhynchospora robusta (Kunth) Boeck.?
                                                37. Palicourea alpina (Sw.)DC.
         (immature)
                                                38. (not found)
   69. Rhynchospora polyphylla Vahl
                                                39. (not found)
42770. Blechnum indicum Burm.
                                             42840. Cocoocypselum pseudotontanea Griseb.
          (B. serrulatum L.C.Rich.)
                                                41. Psychotria corymbosa Sw.
   71. Eleocharis elegans (H.B.K.)R. & S.
                                                42. Grammitis graminea (Sw.) Ching
                                                43. Hymenophyllum polyanthos (Sw.)Sw.
   72. Equisetum giganteum L.
   73. Panioum maximum Jacq.
                                                44. Thelypteris deltoidea (Sw.)Proctor
   74. Emilia javanica (Burm.f.)C.B.Rob.
                                                45. Asplenium alatum H. & B. ex Willd.
   75. Buxus laevigata (Sw.)Spreng.
                                                46. Ctenitis willosa (L.)Copel.
   76. Cordia jamaicensis I.M. Johnst.
                                                47. (not found)
                                                48. Peperomia swartziana Miq.
   77. Lisianthus exsertus Sw.
   78. Sphagnum
                                                49. Piper fadyenii C.DC.
   79. Lindsaea portoricensis Desv. (* -
                                             42350. Polypodium repens Aubl.
         specimen withheld - please send label) 51. Peperomia alata Ruiz & Pavon
42780. Melochia villosa (Mill.)F. & R.
                                                52. Polytaenium lineatum (Sw.) J. Sm.
   81. Casearia arborea (L.C.Rich.)Urb.
                                                53. Uncinia hamata (Sw.)Urb.
   32. Eugenia wilsonella F. & R., vel aff.
                                                54. Grammitis cultrata (Willd.)Proctor
   83. Clethra occidentalis (L.)Steud.
                                                55. Trichomanes orispum L.
   84. Phyllanthus arbuscula (Sw.)Gmel.
                                                56. Danaea jamaicensis Underw.
   85. Croton laurinus Sw.
                                                57. (lichem)
   86-92 (not found)
                                                58. Urera elata (Sw.) Griseb.
   93. Suriana maritima L.
                                                59. Trichomanes scandens L.
                                             42860. Trichomanes rigidum Sw.
   94. Heliotropium curassavicum L.
   95. Mallotonia gnaphalodes (L.)Brit.
                                                61. Peltapteris peltata (Sw.)Morton
                                                62. Grammitis asplenifolia (L.)Proctor
   96. Cordia sebestena L.
   97. Cyperus planifolius L.C.Rich.
                                                63. Lobelia assurgens L.
                                                64. Rhynchospora polyphylla Vahl
   98. Paspalum vaginatum Sw.
   99. Heliotropium curassavicum L.
                                                      (sens. lat.)
42800. Sesuvium portulacastrum L.
                                                65. Ilex macfadyenii (Walp.) Rehder
                                                66. Podocarpus urbanii Pilger
   Ol. Portulaca oleracea L.
                                                67. Dendrophthora opuntioides (L.)F.& R.
  02. Cyperus planifolius L.C.Rich.
  03. Sesuvium portulacastrum L.
                                                68. Schradera involucrata (Sw.) K. Schum.
   04. Portulaca oleracea L.
                                                69. Haenianthus incrassatus (Sw.) Griseb.
                                             42870. Clusia haveticides (Griseb.)Pl.& Tr.
   05. Suriana maritima L.
  06. Mallotonia gnaphalodes (L.)Brit.
                                                71. Eugenia biflora (L.)DC., juvenile
                                                72. Eupatorium critoniforme Urb.
   07. (1)
  08. Coccooypselum herbaceum Aubl.
                                                73. Hedyosmum arborescens Sw.
                                                74. Relbunium (Galium) hypocarpium
  09. Phyllanthus tenellus Roxb.
                                                                            (L.) Hemsl.
42810. Eleocharis elegans (H.B.K.)R. & S.
   11. Crepis japonica (L.)Benth.
                                                75. Fragaria vesca L.
                                                76. Juneus platyphyllus (Wieg.)Fern.
   12. Borreria laevis (Lam.) Griseb.
                                                77. Ageratum houstonianum Miller

    Lycopodium reflexum Lam.

                                                78. Nephrolepis exaltata (L.) Schott
   14. Grammitis serrulata (Sw.)Sw.
                                                79. Urechites lutea (L.)Brit.
   15. Dichaea pendula (Aubl.)Cogn.
   16. Junous bufolius L.
   17. Lonicera confusa DC.
   18. Cardamine hirsuta L.
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19. Polypodium plumula auctt., non H.B.W.

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42880. Piper discolor Sw.
  81. Cheilanthes microphylla Sw.
  82. Polypodium plumula auctt., non H.B.W. 48 Adiantum cristatum L.
  83. (fungus on dead insect)
                                                 43.
  84. Adiantum fragile Sw.
  85. Guazuma ulmifolia Lam.
  86. Digitaria sanguinalis (L.)Scop.
  87. Bunchosia media (Ait.)DC.
  88. Borreria laevis (Lam.)Griseb.
  89. Pilea microphylla (L.)Liebm.
42890. Scleria lithosperma (L.)Sw.
  91. Polypodium heterophyllum L.
  92. Lasiacis divaricata (L.)Hitchc.
  93. Rauvolfia nitida Jacq.
  94. Tillandsia setacea Sw.
  95. Chiococca alba (L.)Hitchc.
  96. Polypodium latum (Moore)Sodiro
  97. Portlandia grandiflora L.
  98. Piper discolor Sw.
   99. Ocotea robertsonae Proctor (ined.) *
42900. Psychotria nervosa Sw.
   01. Guettarda argentea Lam.,
        var. glabrata Urb.
   02. Borreria laevis (Lam.)Griseb.
   05. (not found)
   04. Drymaria cordata (L.)Willd. ex R. & S.
   05. Euphorbia hirta L.
   06. Tragia volubilis L.
   07. Forsteronia floribunda (Sw.)A.DC.
      [Pilea grandifolia (L.)Blume
   08. Polypodium "pectinatum" X "plumula"
   09. (not found)
42910. Gyrotaenia spicata (Wedd.)Wedd.
      Cheilanthes notholaenoides (Desv.) Max.
   Cordia bullata (L.)R. & S.
   12. Polypodium piloselloides L.
   13. Pilea crassifolia (Willd.)Blume
   14. Anthurium scandens (Aubl.) Engl.
   15. Borreria lasvis (Lam.) Griseb.
   16. Asparagus plumosus Baker
   17. Cynoglossum amabile Stapf & Drum.
   18. Ansmia adiantifolia (L.) Sw.
   19. Thelypteris reptans (J.F.Gmel.)Morton
42920. Geameria acaulis Sw.
   21. Thelypteris serra (Sw.)R.St.J.
   22. Rondeletia cymulosa Proctor (ined.)
   23. Rondeletia sylvestris S. Moore
   24. Rondeletia cymulosa X sylvestris ? ined.
   25. Hippobroma longiflora (L.)G.Don
   26. Polystichum echinatum (J.F.Gmel.)C.Chr.
   27. Phyllanthus arbuscula (Sw.)Gmel.
   28. Acrosynanthus jamaicensis Howard & Proctor
   29.
42930. Eugenia axillaris (Sw.)Willd.
   31. Alvaradoa jamaicensis Benth.
   32. Portlandia coccinea Sw.
   33. Psychotria asiatica L.
   34. Eugenia monticola (Sw.)DC.
   35. Erithalis harrisii Urb.
   36. Rhytidophyllum tomentosum (L.) Mart.
   37. Pilea sp. nov.
   38. Tectaria heracleifolia (Willd.) Underw.
   39. Cheilanthes notholaenoides (Desv.) Max.,
          intergrade toward C. microphylla Sw.
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42940. Asplenium erosum L. 4241. (?) litter 44. Polypodium angustifolium Sw. 45. Guettarda argentea Lam. 46. Portlandia coccinea Sw. 47. Lonchocarpus 48. Coccoloba krugii Lindau 49. Solanum (Lycianthes) stellatum Jacq 42950. Pavonia soabra (Vogel)Stehle & 51. Chiococca parvifolia Wullschl. 52. Rugenia sp. nov. ? (would like to borrow this) 53. Asplenium jamaicense Jenm. 54. Polystichum harrisii Maxon 55. Ayenia laevigata Sw. 56. Acidotan urens Sw. 57. Selaginella hispida (Willd.) A. Br. 58. Mandevilla torosa (Jacq.) Woodson 59. Eugenia clarendonensis Urb. 42960. Tournefortia maculata Jacq. 61. (Myrtaceas - gem. & sp. indet.) 62. Lagetta lintearia Lam. 63. Nees nigricans (Sw.)F. & R. 64. Daphnopsis occidentalis (Sw.) Kr. & Urb. 55. Nephrolepis exaltata (L.)Schott 66. Piper arboroum Aubl., sens. lat. (P. verrucosum Sw. ?) 67. (not found) 68. Mimosa bimuoronata (DC.) Ktze. 69. Stachytarpheta jamaicensis (L.)Vahl 42970. Digitaria horizontalis Willd. 71. Stachytarpheta mutabilis (Jacq.) Vahl 72. Emilia javanica (Burm.f.)C.B.Rob.

158 1962 James



## MAP OF

With Roads showing Distances Telephone Pay Stations Gas Stations

11.0

THEORET ARTHUBULE ASSISTANCE. OF EREDERICE STREET PORT-OF-SPAIN TRINIDAD B.W.L. TELEPHONE 34445

158 1962 Jamesia Juliuri - 7 - - 1 mt



YOU CAN BE RURE OF MIREL.

gareau collected Halophiles Daillonis to a depte the 240 ft on months of famous of on both crash of famous Horev from Hardwar gaps
Ridge with same
friest granted and
mossy 4-8 m. tall
Protosarpus, Hedgramm,
Cyrilla, merest mace.
etc. very ineg acan
plane, tangled with
plany Vrieses tanks,
many form, or bew yatter
theragram and they
mosses on grammy
felsignell abundar

gorean collected Halophies daillouis to a depth of the formand,

160 1962 Jamaica July 24 - Between green Hill and Hardwar gap, along was. in montane rain frest. 47820 Vilea (m. sp. m. + extractor) u Cobaca scandens 22 Pilen Illi F = 1 on steel want cut nephrolepus peclinale in steel was cut 24 Calcerlang in wet wadered I gelinsoga parviflora n Experis bevilotins orrasional on rouderde 17 Calceolaria pinnata 1

rare on wet roadride

common on roadude

July 24 - navny on north side

19 Beslevia lutea L. Freet

13 Oxalis

common

orientered

prochee

3500-4000 Portland Parch berl , m. tall; leaver beneately! bullate, purple extensive ving, climbing over bushes; flowers - juigle. rums fleshy, red; impressed above tongly cirolla light yellow rays whit.

headrques evert; cirolla pale yellow.

of Hardwar gab, Portland Parch 400,

14-10

1111-47

should 1.5 m, tall calyx pale many; crolls white, fruit deep range. tem clongate, sprawting. trestractory vine, flower while. 42861 Peltapters peltate an ehiphytis on fallentry trunk 62 grammitis - July 24 - Trail up my Hole from Handwar gay, Handrew lan montane rain great on made 63 Lobelia assurgens race in open spot 64 Klynchosporg 3 65 Plex a l'odoca pur common 67 Lendropthons opentiones (1.) Faux sent orcasional, parasitie on Cyvilla 68 Achraden exotica (gmel.) Standley occasional, epilphytic in trees 69 Palicoures Bytholin regulation orrasiona" 69a Harmanthus orcasional or ras 70 Clusia vicasional 11 Eugenia bicolor var. 12 Empatorium

erect, untranched there 1 m. Tall, stems and main leaf weins purple; - corollas diell dark purpo stems weak, ascending - at land distally. stender Tree 5 m. Toll, - shorts; fruit truck. small tree bushy in - appearance, & m. call. joints somewhat a marked? - blattened, friend red. should, somewhat vine tille fruit immalus distis strongly rugose shoul, thyaze, purple, - corollar whilish. tree & m. tale, cirollas - white, mostly fallen. small tree, shoul 1.5 m tall; sterile.

shout is m. tall.

168 1942 Jamaica shoul 3 m. tall, who LI2873 Hedyramum very common fruit translucent white. H galicon Sagharafrium July 24 - Hardwan gaps St. andrews Par. 3930 74 galium hypocarpium wile gen; fruits many, occasional on road cuts fleshy. 75 tragang flowers white; fruit common on roadside banks red, achenes in shallow A Top of the cold was to provide the frits. 76 Juneur tenuis Wills. Tichion 82 small tuft. road cut 2 77 ageratum houstonianum maure flowers common on was idea. Blick River, LA Elizabeth Par 150 mg on steep hill of rough limestre fronds erect 78 Nephroletis. common on road cut 79 Echites a seemday sent actifem twiner; floreners bright yellow. 80 Vilper shub 1.5 m, tall; in open seemlery remb terries white. 31 Cheilanthes in noch everices in opening 82 Polyhodium fronds armets common in shade 8) (gungus) old been raching

Vellages with articulars. Prosopi, Delnin, manzipan Awall field, fallow in in maundat, maize, bunanas, grass, etc. reathers trees, thickets. hedgerows. Edgeed Spanish Town, with for Prosofis semb. scattered farmaney, Prosopio and several other large spreading trees. Kanthosoma along ditches. W. of Sparish Town - mainly sugar cine. Rows of occurt and other trees on left a large beach of Prostis send then more cano. Block of Prosofus savanne on it. the mare come block of savans a left, care south of it. Hartlands station. There can Cane i in all stages, but mostly rather young. some just granted. Acreb frest in distance on left and on low hills franto right, then close or flat ground or right, then still closer, then an extensive sent frest of a morais of and savanna. can still a left. Lavania to Samanes and Prosopio,

Bushy Park Open fruit of Prosofis and occasional tamanes with fairly lumerest grave, fading to savanne grazing in savoure torne alwart closed Prosopie serve forest. Lavanna and se flat topped serve Jevest marca less general. Villages with gardons. Prosofiis send! Old Harbour The grass in all this locations is a coars bunchy type, possibly Canisun maximum, but grazed clown. home come, branana, uno cities. Then more over Prosofer forest and savan for fielden legy. Bodles fet Hills on right with some freit - wooded bottom lang gust before them. Then tall Presopra acare sems will exattered trees Noute climbs around back of hills. Some clearings partly over gran Rolling low hills with dense ieraband clearings with pesties and cultivation.

mosan of fatcher of seul, field, various stages of regrowth, faster etc. on lebt extensive very from man plantation. Hell are limestone but retief is low, rounded. Sixal extends several mila on left sanning and sembon it. Then generally irregularly semb-avered con lunesten bills both sides. more sixal on both sides. There low hell with dense server and clearings We served and serub frest on these hills pos broad-leaf. no Prosopis a accio, except on effect were between bills. Hills are lower, more cleared, with many Blighin, Coros. artocarpus, Delines, margo, Carrisqueriete. Then a large rive, Rio Minho. May Pen, or frain riged town. Gallery frest and bambos along me, cultivation on blood Waln, seems frust on blyfilm - then low rounded hills with sugar care m left, sout on right, dense to open. Then flat giving

practice and climb Havanng. Munichead avenue and intersection with new highway Level frest and savanna. Everl cuttivation of marge, etc. Tallary frest along stream. Vasture and suvarius. lage cetres orchard on very closer thes planted Castere with many large trees, broad leaf. Four Cather. cleaned low till. broad valley with citrus orchard will scattered coors, then savanna. Higher limestry hills to northy many fields, semb, presture, seatters in flat ground. Rock Halt. Helle a me croser to track. Bamboo. Pichecellobium, young regrowth and postule, Linestone bills. These of mostly wooded - many fan Julion Corrogio, main, bananas, then tango

come plantation in blat grand flave base of hills. Partures \* carefults, liverties tillantigg. Junding. Claunder Parls & sugar can on it. with many trees - eles. cues, Blighia, etc. True and gorden land well arterarfies Muca mago. Blighen, Citrus, theoling, Chrysophyllum, Cocos, Mangelery Cella, Cercentia Spondius, Lamanen, some Coffen. etc. Einestone belle with turnels, above fruit tree assemblage between them. actoraques abundant. Epiglingtes, esp. Rhihrales in tanones. Carobia common Higher mountains an night with on left, also, (may Day M) bet. Its, dominated by this fruit tree landscape. Fores trees. Track clumber army hello on it. clearings, pastures thickets. Fruit the landscape is

walley on left. Climbing in into limeston hells - partly worded frantly cleary, fruit trees abundant around houses. (tein longifolis is very abundant on all limestony cuts. Valley open on right generally worded in bottom, slopes cleared in a shifting agricultur potchwork. brack strict, there, up cryto a rolling, hilly upland tere partine, some thickey, some fruit trees inch. Coos. Mais, gams, banana etc in garden Track stricts souls tof of lower hart of the dalles noted above where it is named. more or less V shaped. They do fedes in sligting out and pasture. Where bottom is fairly wide is is grassy or in from citing orchard. Thickets. Panieum maximum but weedy and tending t growing a send. The

gentles slopes here an soil the well is limester. stopes on both sides of meture of grans, hans servet andret Cultivation of many, yours etc. local on lower gentle slotes, also on gentle place on bigher aloge. Thickets and serve broadless with string microphyllous terdine, some Bennera annorth. · Mith side becomes steeper. more deniely frested, will side gentle stope and mostly gran (Panieur maximus) and stronday regrowth, sometis forme large trees, mostly scattered - Ceiba, Freus ortorapy ets. locally borning a boret. mostly of he Wrighte constitutes on some trees. Valley widens and track goes down into it. Mostly cultivated and in pasture. some fruit trees. Cull. esp. maize Williamsfield. Citrus ordrands on gentle. north slope, Touch course To math mide Mosar of thicket and grassy cleanings Large barrite works, sine mining. Kandal.

grassy slotes with trang large Trees. Then alle gentle with some cultivation and thisliet, higher hills prested stones filled set and in well biolds and pastures. Some stine walls. nephrolegies of biserala abundant locally, Patches of sweet potation range partures in gently rolling broad valley bottom. Some thickets, barnboo, helgerows, ecuttered trees. tills on south pertly worded, mt. on moth also. Truck climb. up this rolling walley bottom letries orchard. grass and wooded hill landscape. some large trees, thicker Very green quite - tree cattle. valley a broad strip of care not friendly. grove Place. Walley becomes manning any more insided. Track gods north into a more bronounced transf.

mosain of wood, fastres regrowth, cultivation wooded Stone walls and stone fulle common, much sparseriend. More gentle whogsply. Maizo, citic banking sweet waters your green Vale Then a mostly wooded haarst, some gentler sight citrus orchande marge. I make Higher limestone ranger on either side . Deaner more gentle and more offen. Large Coing trees Cecropia commo Fiances abundant in frest. Many shippyes, ex, howelists on some trees. Bocconia common in hedge nows, etc. Fren Hill Hibrian elitin (make) common in ralley treadfruit alex. Pithecellobium Lulis recover a rolling plateau or basin. Breakfruit abundent. Durch Pond Falt. Fruit tree association. Cocos. open freet appearance. Open benau- cult. citrus solar then sombly freed and thechel

wartly microphyllows. Terms abundant. Wide valley with willing hills, some small care field, valley mostly open. mayo. "incliety Balaclava. Estrum rshard. De Large Total in valley Cours. fanavas. Valley widers to north dange flat litter battom is sugar plantation. Itally country etry weach to west . clearing, coultiwater dange flat volle, bottom en left, in cane planlation. Track skintswhills on night of valley, then occross flat plantation finall mogoto. in north part. Revely woodley Union Halt. and tangled with in Clumps of bandor scattered in care freeds. fruit tres land seate, grown rather willing. Silval fort very yellow. more fleat come land on nglos several small brookles. Rolling parture on left. furniting limes the hells

mostly wooded, out some cleaning Valley bottom becomes appleton. geat land. quavas common. Spatlodes atro. Gyrerus along canal but not abundant. Track follows navery flate valley battom. Rolling grancy hills on tops mogote like high one on it. Valley frinches out between grassy harst hells. Ame can on this on left. Mostly Black River They broad rolling grany valley bottom with new meanders in it, grand thickets. Joy 27 - Maggoty limestone bill about with feemdary 20 ml of Franka, Lantoner Hermstryla et with many vives stery painfully. advantum and Joly produce common on rocks Calanchor Digitario on soil in ledges.

July 23 - Maggoly Rough limestone bill low forest, trees up to about 8 m. tall, 15 cm olbh. canopy incomplete and inequaling. Vines very abundant a wordy manble will backend pointing branchlets, sometimes almost spinescent. terns common on ground and on tree trunks. Show langer 1-3 m, of "Codiaeum" Piper et. Vieres and Irllandara on rocks and in tees armestone is very gutted and resorted. This is evidently secondary vegetation, as there are remains of stre walls and across on the of posite scope, as som small om patiles and recent cleaning on equally steel with slopes. Then seems to & no soil at all.

above dischembeddie in Corhpit Country tangled low forest with many liana. some ferns, on rough limestone. More vertical than horizontal sunface (photos)

July 13 - Christians
I waste places in town
and in garden

Gynoglossum of amabile

Frohaerlan maju

Pashabum anjugatum

Petunia

Impatiene balvanna

Misson produces

Misson produce

Gyear revoluta

Frenchum sould-loss

Melinia minutel-loss

Grevilles robouste

Merilles robouste

Misson frequences

Clerodetolium fragrass

Rangoal Cave 1900'

Babecue Botton

July 197 ref. Christians - albert 7 own, Barbe we Bottom. where we were indie of states of complemente of alomost completely deputed.

Just south of Stetten (Johotos)

albert James
boadfruit, mangoes

tanomae, coffee

Burnt Hilf - Partralauncy Extremely disserted harst, made whole primacled limestry 1900-2000, extremo solution features costs fits - sintes with red soil in them (photos) on covered by a low tangled forest extremely rich in & Cuphabearea, Mystoren etc. Cluring 7 ms. guetterd. Gerns. Kulpaceas. Hard agglomeration of inon side weathered out in coral. The chaper cliffs but will good strong fortholds and hand holds. Myrial of land shells

192 1962 Jamares 42923 Rondeletia (may Porta) occasional in vertical face 24 Rondeletia accasional on vertical free 25 Hypotroma lingifolia common along road sides 24 Polystelum echinatum mane, in stude become many 27 Phyllanthus and in last bold no reasonal in frest below road July 29 - Karngont Care m. of albert Town Trelawing Parcel on steep embautiment below soud on limestone cliff Harmon and the state of the sta oceaninal occurrend 30 Engenia on Day ( by ) Wild 31 Pid-writing to make the chi or animal 32 Portlandis corcinea -33 Psychotria asiatica L. y Engeria wind. 35 Condeletia 36 Rhytrdophyllun common in open.

1962 Jamaica 194leaves rugose glosm, 42937 Pilea 1 commen 2 38 rectang he willed 39 Cheilanthes nothersenoids ? [ ] common on webs along road July 29 - Burnt Hill, Gostifut Country Treasing Parist indense from hilf of deeply directed hand timestone 40 asplening wood 42 lieles, and the state 4) adianteery textum occasional 49 Polypodium orianimal 45 quettardy argenteal the small trees in tal, I rave a losal frest branching conspicuous terminations, - fruit immature 46 Pritlandia coccure - shoul occasional or diff extensive trans 47 Londocarpus mot hots orman flowers bright purple common fruitimmature 40 totalore benegli to bear neasimo mately motput 49 tolanum stellatum 111/1 amall tree 50 Parmid and I will well you common parvifilia twine, fuit immatare 57 Chiococca parvifole IIII

1962 Jamains 196 42952 Engenia sachetae ( with / type) should; fruit immater occasional 37 asplemen gamaitens 1 bluish free common in noch futy wedcrewes 34 Polystichum bereit proliferating at typs. occasional in shades lineston crovices 55 (now germ regola are . Prostan webster) shrub nane Ayes las gate by SE Hamilton Landon Till stender tre; stinging. common 57 Selaginello, hopeda (4). 14 pale green rale in pit in sole contentey conspicuous 58 Estates? Mullimeter stone I more 59 Engenia lande min ho strul so Heliotropium strul; fruit green. small shruly armater 4) Permenta Obscure hoctor ( and 1978) when broken. ar with the land of the steve strub. nad 6) neeg juraicensi mall tree; fruit scarlet. 44 Jahlnopors strul, flower gream accasional , and the 65 nephrologis humatula tronds arest common in mor pan places 66 Paper ahnely, steil 615uly 29 - Just with of Stellin 1-1-1 Trelawney Parish 67 Caspalum frontratum

1962 Jamaica Mimora timmunata (DC) Ktg branched, flowers white very common on ended and July 29 - Tony Trury northwest of Waita-Bit, Trelaminen Painsh 2750 840 m on croded road bank in non-calcareous soil 42969 Stackytarpheta jamas 13 much branched; oranimal - flowers dark purple. 70 Digitaria houghtons Will. sprawling dommon Stachytaspheta mutabilis franched herle; flowers old nose fine omning paranica (bump) Pot. plowers brick red, turning purplish with age.

1962 Jamaics 200 July 31. air-leaving Jamares Pately reefs and carys outside the Calisadoes - a long and slightly complicated spit extending out from see of mouth of Hope River, made up almost entirely of vive rand and glavel. Has mangines along trails side beford airport, and covering wides lobes. tandy placer near airport covered by a pure stand of Tribulus cistoides with unusually large flowers. West of Kingston harbon, inside the shit that extends out to enclose it, is a very low saling glat partly bare partly covered by Bati, and with considerable mangroves, extending well inland in the north tract of the west show. Toward north coast is a considerable area of "semi-corlegit" country, where the mogether as definitely segranated by plat bounities anens form a sort of noteurs ( this mustby new claremont) of

The neeps along this north coast are manow, except at indentations and ball off rapidly seaward but with considerable saindy bottom between broken broken before haralled to shoe. Reeps in Montego Bay willed montey from strike have outer parts of striking parallel grows a ridge + 185 coast.



